



Atty. Dkt. No. 040563-0167

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Grier et al.

Title: TRANSVERSE OPTICAL
ACCELERATOR AND
GENERALIZED OPTICAL
VORTICES

Appl. No.: 10/659,153

Filing Date: 09/10/2003

Art Unit: 2621

<p align="center">CERTIFICATE OF MAILING</p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below.</p> <p><u>Jane Herold</u> (Printed Name)</p> <p><u>Jane Herold</u> (Signature)</p> <p><u>8/1/05</u> (Date of Deposit)</p>

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.



TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 06-1450. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1450.

Respectfully submitted,

Date Aug 1, 2005

By Marshall J. Brown

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Examiner Signature		Date Considered	
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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: August 1, 2005 <i>(use as many sheets as necessary)</i>				Application Number	10/659,153
				Filing Date	09/10/2003
				First Named Inventor	David G. Grier
				Group Art Unit	2621
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	040563-0167

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
		Kreminskaya, L. V. et al., "The Gaussian Lenses Give Birth to Optical Vortices in Laser Beams", Optics Communications, Elsevier, Netherlands, Vol. 145, No. 1-6, January 1, 1988, Pages 377-384.	
		Heckenberg, N. R. et al., "Trapping Microscopic Particles with the Singular Beams", Proceedings of the SPIE - The International Society for Optical Engineering, vol. 3487, 1998, pages 46-53.	
		Khizhnyak, A. I. et al., "Optical Singularity's Are Induced in Gaussian Laser Beams by Kerr-like Medium: Geometrical Optics Study", Proceedings of the SPIE - The International Society for Optical Engineering, vol. 3486, 1998, pages 63-67.	
		Rodrigo, Peter John et al., "Shack-Hartmann Multiple-Beam Optical Tweezers", Optics Express, Vol. 11, No. 3	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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